

Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

THE

JOURNAL OF GEOLOGY

A Semi-Quarterly Magazine of Geology and Related Sciences

EDITORS

T. C. CHAMBERLIN, in General Charge

R. D. SALISBURY

Geographic Geology

J. P. IDDINGS

Petrology

STUART WELLER

Paleontologic Geology

R. A. F. PENROSE, JR. Economic Geology

C. R. VAN HISE

Pre-Cambrian Geology

W. H. HOLMES

Anthropic Geology

S. W. WILLISTON, Vertebrate Paleontology

Associate Editors

SIR ARCHIBALD GEIKIE Great Britain

H. ROSENBUSCH Germany

CHARLES BARROIS

France

ALBRECHT PENCK Austria

HANS REUSCH Norway

GERARD DE GEER Sweden

G. K. GILBERT Washington, D. C.

H. S. WILLIAMS Yale University

C. D. WALCOTT U. S. Geological Survey

J. C. BRANNER Stanford University

I. C. RUSSELL University of Michigan

W. B. CLARK Johns Hopkins University

O. A. DERBY Brazil

VOLUME XII

CHICAGO

The University of Chicago Press

1904

CONTENTS OF VOLUME XII

| NUMBER 1 | |
|--|------|
| GEOLOGY OF MONADNOCK MOUNTAIN, NEW HAMPSHIRE. Joseph H. Perry | PAGI |
| On a California Roofing Slate of Igneous Origin. Edwin C. Eckel | 15 |
| On the Chemical Composition of American Shales and Roofing Slates. Edwin C. Eckel | 25 |
| Arapahoe Glacier in 1903. Junius Henderson | 30 |
| THE APPALACHIAN RIVER versus a TERTIARY TRANS-APPALACHIAN RIVER IN EASTERN TENNESSEE. Charles H. White | 34 |
| THE CONTACT OF THE ARCHÆN AND POST-ARCHÆAN IN THE REGION OF THE GREAT LAKES. A. B. Willmott | 40 |
| THE RELATIONSHIPS AND HABITS OF THE MOSASAURS. S. W. Williston | 4.3 |
| REVIEWS: Summaries of Pre-Cambrian Literature for 1902-1903, I (C. K. Leith), 52; Irrigation, F. H. Newell (L. H. Wood), 62; Gems and Gem Minerals, Oliver Cummings Farrington (H. L.), 63. | |
| EDITORIAL. H. F. B | 65 |
| RECENT PUBLICATIONS | 67 |
| NUMBER II | |
| Artesian Well Sections at Ithaca, N. Y. R. S. Tarr | 6 |
| The Rôle of Possible Eutectics in Rock Magmas. Alfred C. Lane | 8 |
| A Fracture Valley System. Joseph P. Iddings | 9. |
| Cuspate Forelands along the Bay of Quinte. Alfred W. G. Wilson | 10 |
| A Contribution to the Study of the Interglacial Gorge Problem. George C. Matson | 13 |
| An Interglacial Valley in Illinois. George D. Hubbard | 15: |
| REVIEWS: Summaries of Pre-Cambrian Literature for 1902–1903, II (C. K. Leith), 161; West Virginia Geological Survey, I. C. White (R. D. S.), 176; Geographic Influences in American History, Albert Perry Brigham; American History and its Geographic Conditions, Ellen Churchill Semple (H. H. B.), 176. | J |
| RECENT PUBLICATIONS | т8 |

NUMBER III

| NOMBER III | |
|---|-------|
| ICE-RETREAT IN GLACIAL LAKE NEPONSET AND IN SOUTHEASTERN MAS- | PAGE |
| SACHUSETTS. M. L. Fuller | 181 |
| RELATIONS OF GRAVEL DEPOSITS IN THE NORTHERN PART OF GLACIAL | |
| Lake Charles, Massachusetts. Frederick G. Clapp | 198 |
| THE LEOPARDITE (QUARTZ PORPHYRY) OF NORTH CAROLINA. Thomas | |
| L. Watson | 215 |
| QUARTZ-FELDSPAR-PORPHYRY (GRANIPHYRO LIPAROSE-ALASKOSE) FROM | J |
| Llano, Tex. Joseph P. Iddings | 225 |
| CRYSTOSPHENES, OR BURIED SHEETS OF ICE, IN THE TUNDRA OF NORTH- | _ |
| ERN AMERICA. J. B. Tyrrell | 232 |
| A COAL-MEASURE FOREST NEAR SOCORRO, NEW MEXICO. C. L. Herrick | 237 |
| THE VARIATIONS OF GLACIERS. IX. Harry Fielding Reid | 252 |
| FAREWELL LECTURE BY PROFESSOR EDWARD SUESS ON RESIGNING HIS | |
| Professorship. Translated by Charles Schuchert | 264 |
| Editorial. T. C. C | 276 |
| REVIEWS: Grundzüge der Geologie des unteren Amazonasgebietes (des | |
| Staates Pará Brasilien), Dr. Friedrich Katzer (J. C. Branner), 278; | |
| The Correlation of Geological Fauna: A Contribution to Devonian | |
| Paleontology. Henry Shaler Williams (Stuart Weller), 279; The | |
| Evolution of Earth Structure, T. Mellard Reade (W. H. E.), 280. | |
| Evolution of Earth Structure, 1. Menard Reade (W. 11. E.), 200. | |
| | |
| | |
| NUMBER IV | |
| | |
| A SERIES OF GENTLE FOLDS ON THE BORDER OF THE APPALACHIAN | - 0 - |
| System. Edward M. Kindle | 281 |
| THE LARAMIE AND FORT UNION BEDS IN NORTH DAKOTA. Frank A. | |
| Wilder | 290 |
| ORBICULAR GABBRO-DIORITE FROM DAVIE COUNTY. NORTH CAROLINA. | |
| Thomas L. Watson | 294 |
| THE OSTEOLOGY OF THE SKULL OF THE PELYCOSAURIAN GENUS, DIMET- | |
| RODON. E. C. Case | 304 |
| On the Structure of the Fore Foot of Dimetrodon. E. C. Case | 312 |
| On the Pyroxenites of the Grenville Series in Ottawa County, | _ |
| CANADA. C. H. Gordon | 316 |
| A Typical Case of Stream-Capture in Michigan. Isaiah Bowman | 326 |
| THE DEPOSITION OF THE CARBONIFEROUS FORMATIONS OF THE NORTH | |
| SLOPE OF THE OZARK UPLIFT. Sydney H. Ball | 335 |
| Eclogites in California. Ruliff S. Holway | 344 |
| | 359 |
| REVIEWS: Catalogue of the Ward-Coonley Collection of Meteorites, | |
| Henry A. Ward, 360. | |
| 110111 / 11. 11 4141, 300. | |

| NUMBER V |
|---|
| Description and Correlation of the Romney Formation of Mary- Land. Charles S. Prosser |
| GEOLOGICAL NOTES ON THE VICINITY OF BANFF, ALBERTA. I. H. Ogilvie GLACIAL AND POST-GLACIAL HISTORY OF THE HUDSON AND CHAMPLAIN VALLEYS. Charles Emerson Peet |
| Reviews: The Non-Metallic Minerals, G. P. Merrill (G. F. K.). 470; Geology of Miller County, Sydney H. Ball and A. F. Smith (H. L.), 470 |
| NUMBER VI |
| Physiographic Studies in Southern Pennsylvania. George W. Stose Über die Gegenseitigen Beziehungen Zwischen der Petrographie |
| UND ANGRENZENDEN WISSENSCHAFTEN. Ferdinand Zirkel AN OCCURRENCE OF GREENSTONE SCHISTS IN THE SAN JUAN MOUNTAINS, |
| COLORADO. Ernest Howe |
| Cross |
| CENTRAL WISCONSIN. Samuel Weidman Reviews: The Clays and Clay Industry of New Jersey, Heinrich Ries and Henry B. Kümmel, assisted by George N. Knapp (J. H. L.), 562; Oil and Gas. Levels, I. C. White (R. D. S.), 563; Baraboo Iron-Bearing District, Samuel Weidman (R. D. S.), 564. |
| RECENT PUBLICATIONS |
| NUMBER VII |
| THE PROFILE OF MATURITY IN ALPINE GLACIAL EROSION. Willard D. Johnson |
| Systematic Asymmetry of Crest Lines in the High Sierra of Cali- fornia. G. K. Gilbert |
| THE PROBLEMS OF GEOLOGY. Charles R. Van Hise |
| GLACIAL AND POST-GLACIAL HISTORY OF THE HUDSON AND CHAMPLAIN VALLEYS, II. Charles Emerson Peet |
| REVIEWS: The Economic Resources of the Northern Black Hills, J. D. Irving (W. D. S.), 661; Zinc and Lead Deposits of Northern Arkansas, George I. Adams, assisted by A. H. Purdue and E. F. Burchard (W. |
| D. S.), 663. RECENT PUBLICATIONS |

NUMBER VIII

| THE RELATIONS OF THE EARTH SCIENCES IN VIEW OF THEIR PROGRESS | E |
|---|---|
| IN THE NINETEENTH CENTURY. W. M. Davis 660 | 9 |
| Notice of Some New Reptiles from the Upper Trias of Wyoming. | |
| S. W. Williston 688 | 8 |
| PLEISTOCENE GEOLOGY OF THE SAWATCH RANGE, NEAR LEADVILLE, COLO. | |
| S. R. Capps and E. D. K. Leffingwell 608 | 8 |
| THREE NEW PHYSIOGRAPHIC TERMS. Rollin D. Salisbury 702 | 7 |
| On Certain Aspects of the Loess of Southwestern Iowa. O. W. | |
| Willcox 716 | 5 |
| THE EFFECT OF SUPERGLACIAL DÉBRIS ON THE ADVANCE AND RETREAT | |
| of Some Canadian Glaciers. I. H. Ogilvie 722 | 2 |
| REVIEWS: A Treatise on Metamorphism, Charles Richard Van Hise (K.), | |
| 744; The Stone Reefs of Brazil, Their Geological and Geographical | |
| Relations, with a Chapter on the Coral Reefs, John Caspar Branner | |
| (T. C. C.), 748; The Copper Deposits of the Encampment District | |
| of Wyoming, Arthur C. Spencer (W. D. S.), 752; Recent Seismological | |
| Investigations in Japan, Dairoku Kikuchi (T. C. C.), 754; Earth- | |
| quakes in the Light of the New Seismology, Clarence Edward Dutton | |
| (T. C. C.), 756. | |